

Serial No.: 10/088,468

Amendment Dated: May 27, 2005

Reply to Office Action of February 28, 2005

Express Mail Label No.EV558768501US

Atty. Docket No.: 967_029

AMENDMENTS TO THE DRAWINGS:

As required in the Office Action, Figure 17 has been resubmitted with the legend "Prior Art" as required by the Examiner in paragraph 2.

Attachment: Replacement Sheet

REMARKS/ARGUMENTS

Reconsideration of the present invention is hereby requested in view of the above amendments and following remarks.

Claims 15-32 have been rejected.

Claims 15-32 have been canceled and written as new claims 33-42 to more specifically define the present invention in order to distinguish over the prior art and overcome the rejections under 35 U.S.C. 112 made in the current Office Action.

With respect to the objections to the Abstract in Paragraphs 3 and 4, the previously amended abstract has been reworded, and an amended Abstract is submitted which is believed to overcome the objections made by the Examiner.

The specification has been amended at the request of the Examiner to delete references to specific claims.

The various rejections of claims 15-32 under 35 U.S.C. 112 is considered moot in view of the cancellation of these claims, and new claims 33-42 being rewritten in more specific form in order to address the various rejections made in the Office Action.

Prior claims 15, 16, 19, 20, 23, 24 and 29-32 were rejected under 35 U.S.C. 102 as being anticipated by applicants' admitted prior art as illustrated in Figure 17.

Claims 17, 18, 21 and 22 are rejected under 35 U.S.C. 103 as being unpatentable over applicants' admitted prior art in Figure 17 as applied to claims 15, 16, 19, 20, 23, 24 and 29-32 further in view of *Maeshima et al.* 5,402, 177. The Examiner takes the position that the admitted prior art hardware disclosed in Figure 17 discloses substantially the same signal transmission unit method and apparatus as contained in the rejected claims which have now been canceled.

In order to emphasize the features of the present invention with its novel characteristics and simplified structure, as compared to the prior art, applicants have presented claims 33-42.

In the conventional prior art signal transmission system described on pages 1-3 of the specification, the transmission path encoding is performed on the RGB signals, with the output from the MPEG decoder being once converted into the RGB

signals, encoded, and transmitted through the transmission path and, thereafter, the RGB signals must be converted into the $Y P_B P_R$ to perform signal processing again on the monitor side and, further, the Y color-difference signals must be converted into the RGB signals once again to output the RGB signals to the final display device, resulting in a drawback of requiring extensive hardware components (see Fig. 17).

The present invention, as set forth in new claims 33-42, solves the above-described problems of the prior art by providing a signal transmission system in which hardware configurations of the video signal transmitting end and receiving end have been simplified.

For example, in claim 33 there is provided a signal transmission system for transmitting a video signal, comprising: a signal transmission unit including; a decoder which receives digital broadcasting and outputs a luminance signal and two color difference signals, and an encoding circuit which encodes the luminance signal and the respective color difference signals into signal forms suited to a transmission path, and transmits the encoded signals; and a signal reception unit including; a decoding circuit which receives the encoded luminance signal and respective color difference signals, and decodes these signals.

Similarly, claim 34 relates to providing a signal transmission system for transmitting a video signal through a transmission path, comprising: a signal transmission unit including; a decoder which receives digital broadcasting and outputs a luminance signal and two color difference signals, a time division multiplexing circuit which sub-samples the two color difference signals to signals with half pixel rates, subjects the signals to time division multiplexing, and outputs a multiplexed signal, and an encoding circuit which encodes the luminance signal and the multiplexed signal into signal forms.

In view of the above, it is submitted that applicants have presented a novel invention which is neither taught nor suggested by the admitted state of the prior art or any combination of additional art cited in the Office Action.

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The Examiner's attention is directed to applicants' specification beginning on page 1 through the first half of page 4 where a detailed description and the function of the prior art system described in Figure 17 is set forth in detail. It should be noted that applicants' simplified system is currently exemplified in applicants' new claims and does not require the voluminous hardware combination and its function as described on pages 1, 2, 3 and 4 of applicants' specification.

In view of the above, it is respectfully requested that the above rejections be reconsidered and withdrawn and the application passed to issue at an early date.

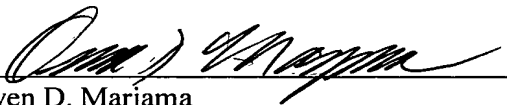
If the Examiner wishes to expedite disposition of the above-captioned patent application, he is invited to contact Applicant's representative at the telephone number below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-0289.

Respectfully submitted,

WALL MARJAMA & BILINSKI LLP

By: _____



Owen D. Marjama

Reg. No. 22,818

Telephone: (315) 425-9000

Customer No.: 20874